

AMENDMENTS TO THE CLAIMS

Please amend claims 16, 21, and 22, and add new claims 31-35. Following is a complete listing of the claims pending in the application, as amended:

1. (Previously Presented) A method performed by a distributed document object model system for associating business logic, comprising:
receiving a registration request from a business logic event handler for an event of the distributed document object model system, wherein the distributed document object model system causes the event to occur when a first modification is made to a hierarchical document;
registering the business logic event handler; and
if the event occurs,
notifying the business logic event handler;
receiving an indication from the business logic event handler; and
performing a function relating to the received indication, wherein the performed function applies a business rule that causes a second modification to the hierarchical document.
2. (Canceled)
3. (Previously Presented) The method of claim 1 wherein the event handler is registered for a document type.
4. (Previously Presented) The method of claim 1 wherein the event handler disallows the first modification so that the event does not occur.
5. (Previously Presented) The method of claim 1 wherein the event handler allows the first modification so that the event occurs.

6. (Previously Presented) The method of claim 1 wherein event handling is performed on a client computing device.

7. (Previously Presented) The method of claim 1 wherein event handling is performed on a server computing device.

8. (Previously Presented) The method of claim 1 wherein the event is generated before the first modification is made to the hierarchical document.

9. (Previously Presented) The method of claim 1 wherein the event is generated after the first modification is made to the hierarchical document.

10. (Canceled)

11. (Canceled)

12. (Withdrawn) The method of claim 1 wherein an answer message is sent to a client that requested the first modification to the hierarchical document that caused the event handler to enforce the business rule that caused the second modification to the hierarchical document.

13. (Withdrawn) The method of claim 12 wherein a broadcast message is sent to another connected client.

14. (Withdrawn) The method of claim 1 wherein the business rule causes the second modification to the document without a corresponding request from a client.

15. (Withdrawn) The method of claim 14 wherein a broadcast message is sent to all connected clients indicating the second modification.

16. (Currently Amended) A distributed document object model system for associating business logic, comprising:

a computing device having a memory, the memory including:

a component that receives a registration request from a business logic event handler for an event of the distributed document object model system, wherein the distributed document object model system causes the event to occur when a first modification is made to a hierarchical document;

a component that registers the business logic event handler;

a component that notifies the business logic event handler when the event occurs;

a component that receives an indication from the business logic event handler; and

a component that performs a function relating to the received indication, wherein the function performed includes applying ~~the~~a business rule, thereby making a second modification to the hierarchical document.

17. (Canceled)

18. (Previously Presented) The system of claim 16 wherein the business logic event handler is registered for a document type.

19. (Previously Presented) The system of claim 16 wherein the business logic handler disallows the first modification made to the document.

20. (Previously Presented) The system of claim 16 wherein the business logic event handler allows the first modification made to the document.

21. (Currently Amended) The system of claim 16 wherein ~~event handling performed on the~~ computing device includes a client computing device.

22. (Currently Amended) The system of claim 16 wherein ~~event handling is performed on the~~ computing device includes a server computing device

23. (Previously Presented) The system of claim 16 wherein the event is generated before the first modification is made to the hierarchical document.

24. (Previously Presented) The system of claim 16 wherein the event is generated after the first modification is made to the hierarchical document.

25. (Canceled)

26. (Canceled)

27. (Withdrawn) The system of claim 16 wherein an answer message is sent to a client that requested the first modification to the document that caused the event handler to enforce the business rule that caused the second modification to the document.

28. (Withdrawn) The system of claim 27 wherein a broadcast message is sent to another connected client.

29. (Withdrawn) The system of claim 16 wherein the business rule causes the second modification to the document without a corresponding request from a client.

30. (Withdrawn) The system of claim 29 wherein a broadcast message is sent to all connected clients.

31. (New) A method of handling events in a distributed object model system, the method comprising:

- receiving an indication of an occurrence of a first event of the distributed object model system, wherein the distributed object model system includes at least one hierarchical document;
- providing a notification to a first business logic event handler of the occurrence of the first event, wherein the first business logic event handler is registered to handle the first event;
- determining if a first business rule specifying a first action to perform upon the hierarchical document is associated with the first business logic event handler;
- if a first business rule specifying a first action to perform upon the hierarchical document is associated with the first business logic event handler, then performing the specified first action upon the hierarchical document;
- receiving an indication of an occurrence of a second event of the distributed object model system, wherein the second event is caused by performing the specified first action upon the hierarchical document;
- providing a notification to a second business logic event handler of the occurrence of the second event, wherein the second business logic event handler is registered to handle the second event;
- determining if a second business rule specifying a second action to perform upon the hierarchical document is associated with the second business logic event handler; and
- if a second business rule specifying a second action to perform upon the hierarchical document is associated with the second business logic event handler, then performing the specified second action upon the hierarchical document.

32. (New) The method of claim 31, further comprising:
receiving a request to register the first business logic event handler to handle the first event;
registering the first business logic event handler to handle the first event;
receiving a request to register the second business logic event handler to handle the second event; and
registering the second business logic event handler to handle the second event.
33. (New) The method of claim 31, further comprising:
receiving an indication to associate the first business rule with the first business logic event handler;
associating the first business rule with the first business logic event handler;
receiving an indication to associate the second business rule with the second business logic event handler; and
associating the second business rule with the second business logic event handler.
34. (New) The method of claim 31 wherein performing at least one of the specified first and second actions upon the hierarchical document includes modifying a node of the hierarchical document.
35. (New) The method of claim 31 wherein at least one of the first and second events occurs when a mutation is applied to a node of the hierarchical document.